2100 Second Street, S.W. Washington, DC 20593-0001 Staff Symbol: G-SEC-3 Phone: (202)267-1907

COMDTNOTE 16478
MAR 2 | 1997

CANCELLED: MAR 20 1998

**COMMANDANT NOTICE 16478** 

Subj:

CH-3 TO COMDTINST M16478.1B, HAZARDOUS WASTE MANAGEMENT MANUAL

1. PURPOSE. This Notice publishes revisions to Commandant Instruction M16478.1B.

- 2. <u>ACTION</u>. Area and district commanders, commanders of maintenance and logistics commands, commanding officers of Headquarters units, assistant commandants for directorates, Chief Counsel, and special staff offices at Headquarters shall ensure compliance with the provisions of this Notice.
- 3. PROCEDURES. Remove and insert the following pages:

Remove	Insert
Page i thru iii	Page i thru iii, CH-3
Page 1-11 thru 1-12	Page 1-11 thru 1-12, CH-3
Page 1-13	Page 1-13, CH-3
Page 2-3 thru 2-6	Page 2-3 thru 2-6, CH-3
Page 4-9 thru 4-10	Page 4-9 thru 4-10, CH-3
Page 4-19 thru 4-20	Page 4-19 thru 4-20, CH-3
Page 4-25 thru 4-26	Page 4-25 thru 4-26, CH-3
Page 4-31 thru 4-34	Page 4-31 thru 4-36, CH-3
Page 7-1 thru 7-2	Page 7-1 thru 7-2, CH-3
Page 7-23 thru 7-26	Page 7-23 thru 7-26, CH-3
Page 8-1 thru 8-4	Page 8-1 thru 8-4, CH-3
Page 9-1 thru 9-2	Page 9-1 thru 9-2, CH-3
Page 10-1 thru 10-2	Page 10-1 thru 10-2, CH-3
Page 11-1 thru 11-5	Page 11-1 thru 11-5, CH-3

### **DISTRIBUTION - SDL No.134**

	а	b	С	d	е	f	g	h	1	j	k	1	m	n	0	р	q	r	s	t	u	٧	w	х	у	z
Α	1	1	1		1	1	1	1	1	1		1	1	1	1	1	1	1	1		1					
В		8	*20	12	7	1	5	1		3	2	1	5	3	1	1	5	1								
С	2	1		2	1	1	5		1		5		1				1					1	1	1		
D		1		1				1														1		1	1	
Ε														1	1											
F										L																コ
G																										
Н																										
	NON	-STA	NDA	RD C	ISTF	RIBU	TION:	*B:c	MLC	(s) 6	extra	ì			-											

Kemove	Insert
Enclosure (1)	Enclosure (1), CH-3
Enclosure (2)	Enclosure (2), CH-3
Enclosure (3)	Enclosure (3), CH-3

- 4. <u>SUMMARY OF CHANGES</u>. New material is indicated with bold print. Revisions are summarized as follows:
  - a. The Table of Contents shows changes to the manual's organization.
  - b. Chapter 1 adds definitions for universal waste and a transfer facility.
  - c. Chapter 2 identifies requirements for exporting hazardous waste and prescribes methods to prepare for audits and regulatory inspections.
  - d. Chapter 4 updates liability issues and identifies new recycling, satellite storage, and universal waste requirements.
  - e. Chapter 7 identifies new used oil requirements, and prescribes new procedures for disposal of Polychlorinated Biphenyls (PCBs).
  - f. Chapter 8 identifies new container air emissions requirements, and prescribes new procedures for hazardous waste accumulation areas.
  - g. Chapter 9 updates contingency plan requirements.
  - h. Chapter 10 updates training requirements.
  - i. Chapter 11 identifies new requirements for shipboard hazardous waste and used oil.
  - j. Enclosure (1) revises the Environmental Management Program Contacts.
  - k. Enclosure (2) revises U.S. EPA Regional Office Contacts.
  - 1. Enclosure (3) revises State Hazardous Waste Management Agency Contacts.

E. J. BARRETT

As**s**istant Commandant for Systems

### TABLE OF CONTENTS

CHAPTER	1. INTRODUCTION
λ	Overview1-1
	Law
	Policy1-3
	Sources of Waste1-3
	Hazardous Materials Used by Aviation Units1-3
	Functions, Powers, and Responsibilities1-3
	Resources1-7
	Definitions1-7
	Assistance and Advice1-12
1.	ASSISTANCE and Advice
CHAPTER	2. CONTROL AND MANAGEMENT OF HAZARDOUS WASTES
Α.	Management2-1
В.	Procurement2-2
	Funding
	Hazardous Waste Disposal in Foreign Countries2-3
	Facility Inspections and Audits2-4
	Penalties and General Liability2-6
• •	Tenderal did concret deadale of the tenderal deadale of tenderal d
	3. OCCUPATIONAL SAFETY AND HEALTH
A.	General3-1
B.	Material Safety Data Sheets3-1
c.	DOD & CG Hazardous Materials Information System3-2
CHAPTER	4. GENERATION OF HAZARDOUS WASTE
_	4.1
Α.	General4-1
	Hazardous Waste Determination4-2
	Land Disposal Restrictions4-5
D.	Sampling Procedures4-8
E.	Used, Reused, Recycled, or Reclaimed Commodities4-9
	EPA Identification Numbers4-11
	Small Quantity Generators (Conditionally Exempt)4-12
н.	Small Quantity Generators (100-1000 kg/mo)4-13
ī.	Large Quantity Generators (1000+ kg/mo)4-14
J.	Changing Generator Categories4-14
K.	Segregation and Compatibility4-15
L.	Accumulation Time/Temporary Storage4-15
М.	Satellite Areas4-18
N.	Recordkeeping and Reporting4-19
۰Q.	Defense Reutilization Marketing Service4-22
P.	Waste Minimization4-23
_	

i

CHAPTER	5. TRANSPORTATION AND LABELING	<b>37</b> .
B. C. D. E.	General  Transfer of Hazardous Waste to Other Units  Manifest System and Recordkeeping  Manifest System (Transporter Requirements)  Labeling and Placarding  Selection of Transportation Contractors	5-2 5-2 5-6 5-7
CHAPTER	6. TREATMENT/STORAGE/DISPOSAL FACILITIES (TSDF's)	
A. B.	Applicability to Coast Guard Units Selection of TSDF's	6 <b>-</b> 1 6 <b>-</b> 2
CHAPTER	7. MANAGEMENT/DISPOSAL PRACTICES FOR TYPICAL CG WAST ITEMS	E
B. C. D. E. G. H. I.	General  Lead-Acid Batteries  Lithium Batteries  Nickel-Cadmium Batteries  Zinc Air Primary Batteries  Paint Slops and Waste Paint  Nonchlorinated and Chlorinated Solvents  OBA Canisters  Strobe Light Battery Cells  Blasting Grit  Used Oils and Fuel  Asbestos  Polychlorinated Biphenyls (PCB's)	7-1 7-3 7-6 7-9 7-15 7-20 7-21 7-22 7-23
A. B. C.	8. STORAGE AND CONTAINER REQUIREMENTS  Container Specifications	8-3
CHAPTER	9. CONTINGENCY PLANS AND EMERGENCY PROCEDURES	9-1
В.	Hazardous Waste Discharges (Spills) and Clean-Up	9-2

CHAPTER	10. P	ERSONNE	L TRAINING
B. C. D.	Record Purpos Conter	ency of ikeeping se of T nts of	ining
CHAPTER	11. SI	HIPBOAR	D HAZARDOUS WASTE
В.	Special Used (	al Circ	rmation
ENCLOSUE	RES:	(1)	Field and Headquarters Environmental Management Program Contacts
		(2)	Environmental Protection Agency (EPA) Regional Offices
		(3) (4)	State Hazardous Waste Offices List of Agencies Designated to Receive Notifications
		(5)	EPA Form #8700-12, Notification of Regulated Waste Activity
		(6)	Intentionally Left Blank
			Uniform Hazardous Waste Manifest (EPA Form 8700-22 and 22A) and Instructions
		(8)	Hazardous Waste Report (EPA Form 8700-13A) and Instructions
		(9)	Sample Preparedness and Prevention Plan Information
		(10) (11)	Sample Contingency Plan Requirements RCRA Emergency/Contingency Plan

iii

CH-3

.

- 1.H.29. Operator- means the person responsible for the overall operation of a facility. For Coast Guard applications, the operator is the unit Commanding Officer. Owner is the U.S. Coast Guard.
  - 30. <u>Person</u>- means an individual, trust, firm, joint stock company, Federal agency, corporation (including a government corporation), partnership, association, state, municipality, commission, political subdivision or a state, or any interstate body.
  - 31. <u>Petroleum</u>- means any crude oil or fraction thereof that is liquid at standard conditions of temperature and pressure (60 degrees Fahrenheit and 14.7 lbs. per square inch absolute).
  - 32. pH- is a value taken to represent the acidity or alkalinity of an aqueous solution.
  - 33. Reactivity- a characteristic defined by the EPA to include wastes which are normally unstable, react violently with water, and are capable of detonation at standard temperature.
  - 34. Satellite Areas- are defined as those places where wastes are generated and where those wastes initially accumulate prior to removal to a central area. For example, a shop located within a Support Center may accumulate as much as 55 gallons of hazardous waste without concern for the normal time limitations. Once full, however, the wastes must be moved to the central accumulation area within 72 hours and become subject to the applicable provisions and time constraints. See Section M of Chapter 4 for further detail.
  - 35. <u>Small Quantity Generator</u>— is a facility producing more than 100 kilograms but less than 1000 kilograms of hazardous waste in a calendar month.
  - 36. <u>Spill</u>- means the accidental spilling, leaking, pumping, pouring, emitting, or dumping of hazardous wastes or materials which, when spilled, become hazardous wastes into or on any land or water.
  - 37. <u>TCLP</u>- means Toxicity Characteristic Leaching Procedure, a specific testing protocol established by EPA to determine the leaching potential for several specific waste products.
  - 38. <u>Toxicity</u>- a characteristic defined by the EPA to include all wastes which fail the TCLP.

1-11

CH-3

- 1.H.39. Transfer Facility- means any transportation related facility including loading docks, storage areas, and other similiar areas where shipments of hazardous waste are held during the normal course of transportation for ten days or less.
  - 40. <u>Transportation</u>- means the movement of hazardous waste by air, rail, highway, or water.
  - 41. <u>Transporter</u>- means a person engaged in the offsite transportation of hazardous waste by air, rail, highway, or water.
  - 42. <u>Underground Storage Tank</u>— means any one or combination of tanks including connected underground pipes, which is used to contain regulated substances (including petroleum) and which only 10% or more of the tank and piping need actually be located beneath the surface of the ground.
  - 43. Universal Wastes- means wastes which are subject to the streamlined management requirements of 40 CFR 273. At the present time only waste batteries, pesticides and mercury thermostats are considered universal wastes. The universal waste requirements are only allowed in states which do not have an authorized RCRA program (HI, AK, IA, and WY) or in RCRA authorized states which have adopted similiar regulations.
  - I. Assistance and Advice on Hazardous Waste related questions.
    - 1. Additional information. Additional information regarding compliance with this Instruction is available from MLC and CEU hazardous waste contacts (Enclosure 1) and Commandant (G-SEC) at 202-267-2345.
    - 2. Federal Regulations. Interpretation of excerpts from the Code of Federal Regulations which appear unclear, as well as any questions concerning hazardous waste may also be directed to the EPA via its RCRA Hotline. The Hotline number is 1-800-424-9346 or, for the Washington, D.C. area, 703-412-9810. Additional information is available from the EPA regional offices listed in Enclosure (2).
    - 3. <u>State Regulations</u>. Answers to questions concerning state regulations can be obtained from the agencies listed in Enclosure (3), State Hazardous Waste Agencies.

# FIGURE 1-1 LISTING OF COMMON HAZARDOUS WASTE ACRONYMS

CESQG CERCLA	Conditionally Exempt Small Quantity Generator Comprehensive Environmental Response, Compensation, and Liability Act
CEU	Civil Engineering Unit
CFR	Code of Federal Regulations
DOD	Department of Defense
DOT	Department of Transportation
DRMO	Defense Reutilization and Marketing Office
DRMS	Defense Reutilization and Marketing Service
DRMR	Defense Reutilization and Marketing Region
EP	Extraction Procedure
EPA	Environmental Protection Agency
HMIS	Hazardous Materials Information System
HSWA	Hazardous and Solid Waste Amendments of 1984
HW	Hazardous, Waste
kg	Kilograms
LQG	Large Quantity Generator
LUSŢ	Leaking Underground Storage Tank
MLC	Maintenance and Logistic Command
MSDS	Material Safety Data Sheet
NFPA	National Fire Protection Association
NRC	National Response Center
ORM	Other Regulated Material (DOT classification)
ppb	Parts per Billion
ppm	Parts per Million
ppt	Parts per Trillion
RCRA	Resource Conservation Recovery Act
RQ	Reportable Quantity
SARA	Superfund Amendments and Reauthorization Act
SPCCP	Spill Prevention, Control, and Countermeasure Plan
SQG	Small Quantity Generator
TCLP	Toxicity Characteristic Leaching Procedure
TSCA	Toxic Substances Control Act
TSDF	Treatment, Storage, and Disposal Facility
UST	Underground Storage Tank

1-13 CH-3

. 

### 2.C. Funding.

- 1. Routine, Recurring Activities. Transportation and disposal of hazardous materials and hazardous wastes that are generated in the course of performing the unit's normal missions are routine, recurring, easily estimable costs and are payable within the unit commander's yearly operating budget. Such costs will be included in the unit's AFC 30 operating budget (or other appropriate operations and maintenance budget for units that do not have AFC 30 accounts) request, which is submitted to the program manager.
- 2. Emergency Funding. Funding for emergency disposal of hazardous materials (e.g., spill cleanup) may be requested from the unit's servicing Civil Engineering Unit, or from Commandant (G-SEC) for Headquarters Units.

# D. <u>Hazardous Waste Disposal in Foreign Countries</u>.

- 1. Applicable Standards. Coast Guard units disposing of hazardous waste in foreign countries cannot comply with the procedural requirements of RCRA since the use of manifests, generator identification numbers, etc. are meaningless outside the United States, unless using DRMO Services. Nonetheless, Coast Guard units must, at a minimum, comply with the environmental standards of general applicability in the host country or jurisdiction in accordance with Executive Order 12088, Federal Compliance with Pollution Control Standards.
- 2. <u>Procedural Requirements</u>. Continental U.S. Coast Guard units should avoid disposing of hazardous waste in foreign countries as a general practice. Exports of hazardous waste are prohibited unless:
  - a. EPA is notified of the intent to export (60) days before shipment off-site;
  - b. The receiving country consents to accept the hazardous waste;
  - c. A copy of the EPA Acknowledgment of Consent to the shipment accompanies the shipment; and
  - d. The shipment conforms to the terms of the receiving country's written consent as reflected in the EPA Acknowledgment of Consent (40 CFR 262.52).

2-3 CH-3

### 2.E. Facility Inspections and Audits.

- 1. State and Federal inspections. States with EPA authorized hazardous waste programs and/or representatives of the Environmental Protection Agency may inspect Coast Guard facilities at any reasonable time to determine if we are in compliance with RCRA. The intensity of these inspections varies by region as well as the discretion of the individual inspector.
- 2. Coast Guard internal audits. As a result of Departmental guidance and as a sound practice, the Coast Guard has developed an internal environmental compliance auditing program. This program, provides an opportunity to analyze our compliance status under "friendly" audit conditions as a preparation for inspections by state and federal regulatory agencies as described above. Refer to COMDTINST 16478.5, Environmental Compliance Evaluation (ECE) Program for more specific guidance.
- 3. Preparation for audits and inspections. A good method to prepare for a visit from an auditor or inspector is to conduct your own self inspection. The following questions are provided as a basic check list to evaluate compliance at your unit.
  - a. Do you have documentation of the AMOUNT and KINDS of hazardous wastes you generate and on how you made the determination that they are hazardous? Do you know your generator status (LQG, SQG, CESQG)?
  - b. Do you have an EPA identification number?
  - c. How are your hazardous wastes removed from the unit and where are they taken? Do you use a licensed transporter? What is his EPA ID number? Where does the waste ultimately go? What is the EPA ID number of the TSDF?
  - d. Do you have copies of Manifests used to ship your hazardous wastes off-site? Are they filled out correctly? Are all the required signatures included?
  - e. Have you filed any exception reports? If so, do you have copies and have the proper steps been taken to resolve the discrepancy?

- 2.E.3. f. Are your containers inspected for leaks and corrosion every week? Do you have copies of weekly container inspection logs on file? Are your containers marked with the words "HAZARDOUS WASTE," contents if known, and the accumulation start date? Does your temporary storage area have secondary containment?
  - g. Have a contingency plan (LQG's only), emergency response plan and waste minimization plan been prepared? Are the names and telephone numbers of the responsible parties up to date? Do you have copies of arrangements made with local emergency response agencies?
  - h. Have you designated an emergency coordinator to ensure that emergency procedures are carried out in the event an emergency arises?
  - i. Are the emergency telephone numbers and locations of emergency equipment posted near the telephone?
  - j. Are your personnel properly trained in accordance with 40 CFR 265.16, 40 CFR 262.34(d)(5), 49 CFR 172.704 and 29 CFR 1910.120(p)(8), if required? Do you have a written record documenting that the required training has been carried out?
  - k. Are containers closed except when you fill them? Are containers of incompatible waste separated? Are containers in good condition?
  - 1. Are internal communications equipment, fire extinguishers and spill control equipment provided? Has your safety equipment been tested?
  - m. Have you removed your hazardous waste within the specified time periods (90 days for LQG's and 180 days for SQG's).

# 2.F. Penalties and General Liability.

- 1. Federal, State, and Local Jurisdiction. Under the Federal Facility Compliance Act (FFCA), 42 USC Sec. 6961, the EPA, state and local jurisdictions all have authority to conduct inspections and enforce their hazardous waste management and disposal laws. The FFCA also requires Federal facilities to comply with these laws in jurisdictions with regulations that are more stringent than those promulgated by the EPA.
- 2. Fines and Penalties. The FFCA has empowered Federal, state and local hazardous waste management agencies to fine Federal facilities for noncompliance with their laws and regulations. Injunctive and administrative sanctions are also available as enforcement options. Many Federal agencies have been fined substantial sums for noncompliance with hazardous waste management laws since the passage of the FFCA.
- 3. Penalties Against Individuals. In some cases, Federal civilian employees and uniformed personnel have been prosecuted for criminal violations of hazardous waste management laws. These cases involved knowing violations of the law which resulted in damage to the environment or knowing endangerment to persons. While such cases are rare, it is important to note that heavy fines and jail terms can be the result of flagrant violations of hazardous waste laws.
- 4. Actions Required Upon Receipt of a Notice of Violation (NOV). When a unit receives a NOV, the chain of command must notify their servicing CEU and legal office. The Coast Guard must act quickly to appeal such findings, if appropriate. The unit must also act quickly to remedy any violations that are within its power to correct. When responding to an NOV, it is helpful to be able to note which violations have already been corrected. Prompt attention to these details presents the Coast Guard in the best light to regulators and reduces the likelihood of serious civil or criminal sanctions.

CH-3 2-6

- 4.D.3. The CEU contact will have a listing of available laboratories by state and can provide this information on request. Any contracts or procurement requests should specifically require conformance with EPA Publication SW-846, "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods" (December 1987).
  - 4. <u>Sampling methods</u>. The methods and equipment used for sampling waste materials will vary with the form and consistency of the waste materials to be sampled. Sampling methods as listed below for various material types may be used and will be acceptable to the EPA when properly executed.
    - a. Extremely viscous liquid ASTM Standard D-140-70;
    - b. Crushed or powdered material ASTM Standard D-346-75;
    - c. Soil or rock-like material ASTM Standard D-420-69:
    - d. Soil-like material ASTM Standard D-1452-65;
    - e. Fly ash-like material ASTM Standard D-2234-76;

# E. Used, Recycled, Reused or Reclaimed Commodities.

- 1. Recycled Wastes. Hazardous wastes that are recycled are subject to the same requirements as non-recycled waste except for materials identified in 40 CFR 261.6(a)(2) (a)(3), and (a)(4). The exceptions listed under 40 CFR 261.6 are quite limited. However, some exceptions applicable to many Coast Guard units are as follows:
  - a. Recyclable materials from which precious metals are reclaimed (e.g., silver recovery);
  - b. Spent lead-acid batteries that are being reclaimed;
  - c. Used batteries other than lead-acid batteries returned to a battery manufacturer for regeneration (the exemption is for battery rebuilding not disposal);
  - d. Scrap metal; and
  - e. Used oil that is recycled and exhibits one or more of the characteristics of hazardous waste (not valid in those states that regulate used oil as a hazardous waste, see Chapter 7, Section K).

- 4.E.2. Recycling Advantages. Recycling used oil, precious metals, solvents, or lead-acid batteries offers significant advantages to the unit. Some of these advantages include:
  - a. Local recyclers generally offer money for scrap metal, lead-acid batteries and silver. Units that have been authorized and designated to operate a CG Qualified Recycling Program (QRP) in accordance with COMDTINST 16477.5, Coast Guard Qualified Recycling Program (QRP) Policy may retain the proceeds from the sale of materials. The proceeds may to be used for QRP operating cost, environmental and pollution prevention projects or Morale Welfare and Recreation.
  - b. General conservation of resources.
  - c. Small quantity generators which recycle solvents under a solvent reclamation contract do not need to manifest exchange of the expended solvent provided the type and frequency of shipments are specified in the reclamation agreement, the transport vehicle is owned and operated by the contractor, and you maintain a copy of the reclamation agreement in your files for three years after termination of the agreement (40 CFR 262.20(e)).
  - d. Lead-acid batteries and used oil which are recycled as well as used batteries other than lead-acid batteries which are returned to a battery manufacturer for rebuilding do not need to be manifested or included in the calculation of hazardous waste generated per month.
  - 3. Liability Reduction. As a result of recycling used oil, solvents, and/or batteries, paperwork requirements are reduced and disposal costs are avoided. Furthermore, disposal of batteries or used oil as waste, leaves the United States vulnerable to possible liabilities for the cleanup of disposal facilities in the event they should become subject to a Superfund or other cleanup in the future. Significant liability is possible even when only small amounts are involved. For example, when a unit disposes of only a small load of batteries, the United States, under certain circumstances, may end up liable for the cleanup of the entire disposal facility. Recycling the same batteries presents less opportunity for future liability. For this reason alone, Coast Guard units should make every effort to recycle.

CH-3 4-10

- 4.M.1. 72 hours) and is subject to shipment within the specified period (90, 180, or 270 days as appropriate) commencing on the date it was moved from the satellite area, and all other requirements outlined under this Instruction. State regulations may differ on specific provisions for satellite areas.
  - 2. Conditions for Use. Generators of hazardous waste may accumulate up to 55 gallons of hazardous waste, or one quart of acutely hazardous waste listed in 40 CFR 261.33(e) in containers at or near any point of generation where wastes initially accumulate, without regard to the 90 day storage time limit provided that:
    - (a) The containers are in good condition;
    - (b) The wastes are compatible with their containers;
    - (c) The containers are marked with the words "Hazardous Waste" or contents identity if known; and
    - (d) The containers are under the control of the operator of the process generating the waste.
  - 3. Limitations. The satellite provision does not allow small quantity generators to accumulate more than 6000 kilograms without becoming subject to the additional requirements mandatory for large quantity generators. Likewise, this provision does not allow conditionally exempt small quantity generators to accumulate more than 1000 kilograms.
  - 4. Locations. Note that a satellite area must be located within the physical boundaries of a given facility. Understanding this fact, a shop within a base or other unit may be considered a satellite. Individual units which are geographically separated, such as stations comprising a group, may not be considered satellites of the group command.

### N. Recordkeeping and Reporting.

 Regulatory Requirements. Subpart D of Part 262 provides detail regarding requirements outlined in paragraphs 2 through 6. If any doubt exists regarding a particular requirement, check with your CEU hazardous waste contact (Enclosure (1)).

4-19 CH-3

- 4.N.2. <u>Generators</u>. Generators, other than conditionally exempt small quantity generators must keep a copy of each of the following for a period of three years (40 CFR 262.40):
  - a. A copy of all manifest documents.
  - b. Any test results, waste analysis or other determinations made in accordance with Section B of this chapter and 40 CFR 262.11.
  - c. A copy of any reclamation/recycling agreement (such as required by Safety-Kleen) for a period of at least three years from expiration of the agreement.
  - d. A copy of any exception report submitted.
  - e. Copy of any request for a storage extension.
  - f. Copies of biennial reports. Note that many states require these reports from all regulated facilities and in many cases, annual reporting is required. A large quantity generator who ships hazardous waste off-site must prepare and submit a biennial report, on EPA Form 8700-13A/B, to the State or Regional Office by March 1 of each even numbered year (40 CFR 262.41) (State requirement may differ). As a result of the waste minimization clause of the 1984 RCRA Amendments, biennial reports must also indicate efforts to reduce waste volume and the reduction actually achieved.

Note: Due to the significant liability connected with disposal of hazardous wastes, all hazardous waste management records and contracts shall be permanently retained at the "generating unit".

- 3. Conditionally Exempt Small Quantity Generators.
  Conditionally Exempt Small Quantity Generators (less than 100 kg/mo) are not subject to the requirements of this section except for the retention of test results as specified under paragraph 2.b. of this Section.
- 4. <u>Biennial Report Forms</u>. Forms and instructions for completion are provided as Enclosure (8). Current forms must be obtained from the EPA regional offices listed in Enclosure (2). Note that most states require their own form.

CH-3 4-20

- Recycling. The following Coast Guard waste items 4.P.4.d. must be recycled whenever possible:
  - (1) lead-acid batteries
  - (2) nicad batteries
  - (3) mercury cell strobe light batteries(4) solvents

  - (5) waste oils

In addition to minimizing waste quantities, recycling of the above items (or any other items capable of recycling) can save a unit significant disposal costs and paperwork requirements. Additional benefits are pointed out in paragraph 4.P.3.

Segregation. The easiest way to achieve waste e. minimization is to segregate hazardous from nonhazardous waste. Generally speaking, adding the two together creates a mixture which is regulated as hazardous waste. See Chapter 4, Section K for recommended segregation practices.

### Q. Universal Wastes.

- Definition. Universal wastes are wastes which are 1. subject to the streamlined management requirements of 40 CFR Part 273. At the present time only waste batteries, pesticides and mercury thermostats are considered universal wastes. The universal waste requirements are only allowed in states which do not have an authorized RCRA program (HI, AK, IA, and WY) or in RCRA authorzied states which have adopted similiar regulations.
- Requirements. 40 CFR Part 273 provides a more detailed 2. explantion of the universal waste management standards. All universal waste is excluded from monthly quantity determinations; a manifest is not required for shipment to a destination facility; universal waste must be marked with the initial accumulation date and the applicable words "universal waste-battery(ies), or pesticide(s) or mercury thermostat(s)"; and universal waste may be accumulated for no longer than one year from the date it is generated. Contact your servicing CEU for further assistance.

CH-3 4-25

# SAMPLE "NOTIFICATION OF HAZARDOUS WASTE ACTIVITY" FORM

Form Approved OMB No 2050-0028 Expires 5:30-88 GSA Po 0245-EPA-01 Please print or type with ELITE type (12 characters per inch) in the unshaded areas only Please refer to the Instructions for Filing Notification before completing this form. The information requested here is required by law (Section 3010 of the Resource Conservation and Panagraphy). United States Environmental Protection Agency Washington, DC 20460 SEPA **Notification of Hazardous Waste Activity** and Recovery Act). For Official Use Only Comments С **Date Received** Installation's EPA ID Number Approved 6 I. Name of Installation BASE SCRANTON II. Installation Mailing Address Street or P.O. Box City or Town Location of Installation Street or Route Number City or Town Installation Contact Name and Title (last, first, and job title) Phone Number (area coc Ownership A Name of installation's Legal Owner B. Type of Ownership (enter code) VI. Type of Regulated Waste Activity (Mark 'X' in the appropriate boxes. Refer to instructions.) A. Hazardous Waste Activity **B. Used Oil Fuel Activities** 🖾 1a Generator K 1b. Less then 1,000 kg/mo. 6. Off-Specification Used Oil Fuel (enter "X" and mark appropriate boxes below) 2. Transporter ☐ 3. Treater/Storer/Disposer a. Generator Marketing to Burner 4. Underground Injection b. Other Marketer 5. Market or Burn Hazardous Waste Fuel a. Burner (enter 'X' and mark appropriate boxes below) 7. Specification Used Oit Fuel Marketer (or On site Burner)
Who First Claims the Oil Meets the Specification a Generator Marketing to Burner b. Other Merketer C. Burner VII. Waste Fuel Burning: Type of Combustion Device (enter 'X' in all appropriate boxes to indicate type of combustion device(s) in which hazardous waste fuel or off-specification used oil fuel is burned. See instructions for definitions of combustion devices.) B. Industrial Boiler C. Industrial Furnace A Utility Boiler VIII. Mode of Transportation (transporters only - enter 'X' in the appropriate box(es) 478. 35. B Rail C Highway D. Water E. Other (specify) IX. First or Subsequent Notification Mark 'X' in the appropriate box to indicate whether this is your installation's first notification of hazardous waste activity or a subsequent notification. If this is not your first notification, enter your installation's EPA ID Number in the space provided below. C. Installation's EPA ID Number A. First Notification B Subsequent Notification (complete item C)

FIGURE 4-5
SUMMARY OF EPA GENERATOR REQUIREMENTS

	REQUIREMENT	100 kg or less per mo.	>100 kg and <1000 kg per mo.	1000 kg or more per mo.
•	EPA Generator ID#	No	Yes	Yes
•	Manifest wastes	No	Yes	Yes
•	Time limit for disposal (days)	None	180	90
•	Accumulate on-site without permit (kg)	1000	6000	Unlimited
•	Satellite accumulation	N/A	Yes	Yes
•	Recordkeeping and reporting	No	Yes	Yes
•	Preparedness and Prevention	No	Yes	Yes
•	Contingency Plan	No	No	Yes
•	Personnel Training	No	Yes	Yes
•	Disposal in regulated facility	Yes	Yes	Yes
•	Disposal in Sanitary landfill	yes	No	No
•	Waste minimization Program	Мо	No	Yes
<b>♦</b>	Exception Reports	No	Yes	Yes

This page intentionally left blank

4-32

CH-3

NC	REACTIVITY GROUP NAME	_
1	Acids, Mineral, Non-oxidizing	-
2	Acids, Mineral, Oxidizing	FIGURE 4-6
3	Acids, Organic	<b>-</b>
1	Alcohols and Glycols	<del>-</del> ,
5	Aldehydes	- art
6	Amides	
7	Amines, Aliphatic and Aromatic	-roup will be codes and
•	Azo Compounds, Diazo Compounds and Hydrazines	No.
-		-19) with
10	Caustics	ross the page ection of these
1,1		7. The Table
12	Cyanides  Dithiocarbamates	ole reactions of
13	Esters	-
13	Ethers	-
15	Fluorides, morganic	-
16	Hydrocarbons, Aromatic	Tiy Consequences
17	Halogenated Organics	Heat generation
13	Isocyanates	Fire
-		innocuous and non-flammable
19	Ketones  Mercaptans and Other Organic Suffices	gas generation Toxic gas generation
21	Metals, Alkali and Alkaline Earth, Elemental	Flammable gas generation
	Metals, Other Elemental & Alloys as Powders, Vapo	Explosion
22		Violent polymerization
23	Metals, Other Elemental & Alloys as Sheets, Rou	
24	Metals and Metal Compounds, Toxic	May be hezerdous but unknown
26	Nitrides	1
27	Nitriles	Heal generation, fire, and toxic gas generation
1	Nitro Compounds, Organic	•
28	Hydrocarbons, Aliphatic, Unsaturated  Hydrocarbons, Aliphatic, Saturated	
29		
30	Peroxides and Hydroperoxides, Organic  Phenols and Gresols	
1		•
32	Organophosphates, Phosphothioates, Phosphodith	13
34	Sulfides, Inorganic  Epoxides	134
		101
101	Combustible and Flammable Materials, Miscellaneo	H H 102
102	Explosives  Polymeriyable Compounds	E E E 103
	Polymerizable Compounds	<u> </u>
104		h lef M le hos
105	Reducing Agents, Strong	or .
106		WELY REACTIVES 107
107		3 3410102103104105106107
	4-33	

·			

	HAZARDOUS	B WA	STE PRO	FILE S	HEET	
		P	ARTI			
A. General Information		WA	STE PROFILE	NO		
1. GENERATOR NAME						
2. FACILITY ADDRESS				3. GENE	RATOR USEPA ID	····
		<del></del>	<del></del>	<u></u>		
	[6. Z	IP CODE		4. GENE	LATOR STATE ID	
8. TECHNICAL CONTACT			<del></del>	7. TITLE	· · · · · · · · · · · · · · · · · · ·	PHONE
<b>.</b>				4		( )
B. 1. NAME OF WASTE	CODE(S)					<del></del>
	ASTE					<del></del>
	IME/UNITS/_			34 04 COLL	SCTION .	<del></del>
S. IS THIS WASTE A DIOXIN L	STED WASTE AS DEFINED IN 40 (	CFR 341.5	11 10.0 5020 6	7E OF COUL D21 E022	E071 E024 E427 AB	<del></del>
POZBI? LI YES LI NO	*				1000, 1000, 1027, OH	
7. 19 THIS WASTE RESTRICTE	d from Land Disposal (40 CFR	1 200)7	J YES [] NO	)		
DOES THE WASTE MEET AP	Granted?	RD87 🗍	YES   10 NO	REFERENC	E STANDARDS	· .
		PA	RT II			
<ol> <li>MATERIAL CHARACTERI (OPTIONAL-NOT REQUIRE</li> </ol>	IZATION FO DATAJ		4. MATER	IAL COM	POSITION	
COLOR			COMPON	ENT	CONCENTRATIO	N RANGE
DENSITY	8TU/LB		Ī			
	ASH CONTENT		<del></del>			
LAYERING: 🗆 MULTILAYERS	i Jackes 🛘 Geneyajis 🗖 Gi	PHASE				
			Į.			
2. NCRA CHARACTERISTIC PHYSICAL STATE:   SOLID   GAS	LIQUID SEMI-SOLID					
	EWATER   NON-WASTEWATE	R				
GNITABLE (DOD1)	REACTIVE (DOOS)					
FLASH POINT (F)	WATER REACTIVE					
□ LOW TOC (< 10%)	CYANIDE REACTIVE  SULFIDE REACTIVE		TOTAL	بالبنيدي	100%	·
CORROSIVE (DOOZ)	TOXICITY CHARACTER	-	S. SHIPPIN	G INFOR	MATION	
ekt	(SEE REVERSE FOR LIS		DOT HAZARE	OUS MATE	RIAL? TYES T	MO
CORRODES STEEL .						····
. CHEMICAL COMPOSITION	N (ppm or mg/L)		PROPER SHIP	PPING NAM	E	
COPPER	-				 U.	N. er
MCKEL1			HAZARD CLA		N.	A. NO
INC	VOLATRE ORGANICS		ADDITIONAL	DESCRIPTI	<b>M</b>	
CHROMIUM-HEXF	'C84				D BULK D DRUM	
OTHER)					GUIDE PAGE	
<u>OTE: EXPLOSIVES, SHOCK SEMPITIVE, P</u> COMMALLY ARE BUT ACCEPTED BY THE DI	YROPHONIC, RABIGACTIVE, ARB ETIGLOSI. RING.	CAL WASTI	DOT PUBLICA	TION BOOD		EDITION (YR)
. GENERATOR CERTIFICAT	ION			<del> </del>	•	
ASIS FOR INFORMATION			÷ .			
CHEMICAL ANALYSIS /AT	TACH TEST RESULTS;					
USER KNOWLEDGE (ATTA	ICH SUPPORTING DOCUMEN	175 - Ezp	isin how and w	vhy these (	locuments comply w	MA
ACRA requirements)	MEGE BY PEI	RTIFY TM	AT ALL IMFORT	MATION PL	SMITTED IN THIS AS	ID ALL
(Print or Type Name) ATTACHED DOCUMENTS IS 1	TO THE BEST OF MY KNOWLEDG	3E AN AC	CURATE REPR	ESEMTATI		
	m or suspected Hazards H	AVE BEE	N WECLUSED.			
IGNATURE OF GENERATOR'S R	EPRESENTATIVE					DATE
			•			i

DRMS Form 1930 Oct 90

### TOXICITY CHARACTERISTIC LIST EFFECTIVE 25 SEP 90 - LARGE QUANTITY GENERATORS 29 MAR 91 - SMALL QUANTITY GENERATORS EPA EPA Ime/U CONTAMMANT CONTAMBIANT (mg/L) HW No. HW No. HEXACHLORO 1.3. BUTADIENE D033 0004 ARSENIC HEXACHLOROETHANE LEAD LINDANE BARNIN 0006 D034 DOOR D BENZENE 0018 DC13 mane CADMIUM-☐ MERCURY CARBON TETRACHLORIDE D019 D008 ☐ METHOXYCHLOR ☐ METHYL ETHYL KETONE D020 D014 CHLORDARE CHLOROGENZENE D021 D036 □ MITRORFNZFNF D036 D022 CHLOROFORM PENTACHLOROPHENOL D037 CHROMIUM D007 PYRIDINE SELENIUM SILVER O-CRESOL D023 D038 D024 D018 M-CRESOL D026 0011 P-CRESOL TETRACHLOROETHYLENE TOXOPHENE TRICHLOROETHYLENE D038 CRESOL D026 2.4-0 D016 D015 D040 1,4-DICHLOROBENZENE D027 2.4.6-TRICHLOROPHENOL 0041 DOZE 1.2-DICHLORGETHANE 1.1-DICHLOROETHYLENE D029 D042 2.4-DINITROTOLUENE 0030 2.48-TP (BILVEX) D017 UNIT CHLORIDE D043 0012 I ENDRIN HEPTACHLOR JANG ITS 0031 HYDROXIDE) 0032 HEXACHLOROGENZENE PART III FOR DRMO USE ONLY DRMO VERIFICATION 1. DATE VERIFIED . 2. RESULTS | ATTACHED \_\_\_\_\_ SPECIFIC GRAVITY \_ \_ HALIDES (TOX) PLASH POINT \_\_ REACTIVITY: WATER REACTIVITY \_\_\_\_\_ CYANIDES \_\_\_\_ SULFIDES \_

# CHAPTER 7. MANAGEMENT/DISPOSAL PRACTICES FOR TYPICAL CG WASTE ITEMS

### A. General.

- 1. Sources of Hazardous Waste. Sources of hazardous wastes at Coast Guard facilities include a variety of materials and range from used batteries to spent solvents and paints. Figure 7-1 presents a listing of the most common waste items and the EPA waste numbers applicable to each. The following Sections of this Chapter provide a brief summary of the most common waste sources and the disposal/storage methods which would typically be recommended for each.
- 2. Management/Disposal Procedures. This chapter is designed to provide a concise reference regarding the management and disposal of common waste items. This chapter shall be used in conjunction with other information provided throughout the instruction and is not intended to serve as an independent reference. Units located in states which have adopted the universal waste management standards (40 CFR 273) are subject to less stringent management requirements for used batteries. CESQG's may not be subject to all provisions of this chapter. Consult with your CEU environmental specialist for further advice.
- 3. Packaging Guidelines. While considerable detail is specified below for the proper packaging of Coast Guard generated hazardous waste, a good rule of thumb is to use the packaging that the product was received in providing it has not been damaged or contaminated. You should be aware that the regulations in 49 CFR impose significant duties on shippers of hazardous materials and waste. Recommended containers are 55-gallon or smaller drums to allow for overpacking in an 85-gallon salvage drum in the event of a leak.

### B. Lead-Acid Batteries.

### 1. <u>General</u>.

- a. Lead-acid batteries, used mainly in cars, boats, motorized vehicles, and solar powered aids to navigation are wet, rechargeable, and usually sixcelled. Each cell consists of sponge lead (anode) and lead dioxide (cathode) plates totally immersed in sulfuric acid electrolyte.
- b. The corrosive electrolyte contained within leadacid batteries warrants the disposal of lead-acid

7-1 CH-3

7.B.1.b. (Cont'd) batteries as hazardous wastes. The EPA Hazardous Waste Identification Numbers are D002 (corrosivity) and D008 (toxicity characteristic for lead). Lead-acid batteries which are reclaimed or exchanged (new-for-old) do not need to be disposed of as hazardous waste. Lead-acid batteries should only be disposed of as waste if their condition precludes recycling, or recycling is cost prohibitive.

### 2. <u>DOT Specifications</u>

- a. Transportation of lead-acid batteries for disposal requires the following information:
  - o Proper Shipping Name: "Waste battery, wet, filled with acid"
  - o Hazard Class: 8
  - o Identification Number: UN2794
  - o Packing Group: III
  - o Label: CORROSIVE
  - o EPA Hazardous Waste Numbers: D002 and D008
- b. Further Transportation requirements are the same as those specified under Section E.2. of this chapter.

# 3. <u>Temporary Storage</u>.

- a. Lead-acid batteries and their containers should be stored in a well-ventilated, dry place. A general-purpose warehouse is an acceptable storage area. Wet-cell storage batteries awaiting disposal shall be stored either in nonleaking containers or double-wrapped in plastic bags, palletized and banded. When storing expended batteries which are to be disposed (batteries which will be recycled need not meet marking and inspection requirements), the date of initial accumulation shall be marked on each batch of batteries stored. Weekly inspection to detect leaking containers is required.
- b. Lead-acid and Zinc-Air ATON batteries shall not be stored together in the same piles or pallets due to incompatibility of their respective acid and base contents.
- c. Units located where freezing may occur should consider storage of discharged batteries inside to prevent freezing and cracking of the case.

7.J.3. <u>Land Ban Notification</u>. Note that manifests for either paragraphs 2 or 3 above must include the appropriate Land Ban notation as discussed in Chapter 4.

# K. Used Oils and Fuels.

### 1. General.

- a. USCG used oils and used oil mixtures identified as consisting of small quantities of gasolines and diesel fuels, hydraulic oils, and other similar materials destined for recycling are subject to the used oil management standards (40 CFR 279). EPA presumes that used oil is to be recycled.
- In general, mixtures of used oil and hazardous b. waste must be managed as a hazardous waste and not used oil. Used oil containing more than 1,000 ppm total halogens is presumed to be a hazardous waste and thus must be managed as hazardous waste unless the presumption is rebutted. Mixtures of used oil and hazardous waste that are listed in subpart D of 40 CFR 261 are subject to regulation as hazardous waste. Mixtures of used oil and characteristic hazardous waste are subject to regulation as hazardous waste if the resultant mixture exhibits any characteristics of hazardous waste identified in subpart C of 40 CFR 261. Used oil mixed with a waste which is hazardous solely because it exhibits the characteristic of ignitability (e.g., ignitable-only mineral spirits) may be managed under the used oil standards, provided that the resultant mixture does not exhibit the characteristic of ignitability (despite exhibiting any of the other characteristics).
- c. Several states regulate used oil either as a hazardous waste or under their solid waste regulations. In those states where used oil is regulated, unit hazardous waste managers must ensure that state and local requirements are met. Requirements may include the manifesting of any used oil as a hazardous waste. Questions concerning state requirements should be initiated through your servicing CEU see enclosure (1).
- d. Aviation fuel from testing for water contamination can be mixed with fuel oil and burned for energy recovery. (See Sec. E Chapter 4)

7-23

CH-3

### 7.K.2. <u>DOT Specifications</u>.

- a. Manifest information for transportation of used oils and waste oil mixtures is as follows:
  - o Proper Shipping Name: "Waste flammable liquid, n.o.s."
  - o Hazard Class: 3
  - o Identification Number: UN1993
  - o Packing Group: III
  - o Label: FLAMMABLE LIQUID
  - o Additional Information: (insert technical names of at least two components that most contribute to the hazard of the mixture)
- b. Selection of the appropriate DOT hazard class is dependent upon the material's flash point (not more than 141°F for flammable, and above 141°F, and below 200°F for combustible).
- 3. <u>Temporary Storage</u>. Used oil shall be stored in containers or aboveground tanks which are in good condition (no severe rusting, apparent structural defects or deterioration), and not leaking. Containers and aboveground tanks used to store used oil must be marked clearly with the words "Used Oil".
- 4. <u>Disposal</u>. Coast Guard policy dictates that used oil will be recycled whenever possible. Used oil that is identified as a hazardous waste and cannot be recycled in accordance with 40 CFR 279 must be managed as a hazardous waste. Used oils that are not hazardous wastes and cannot be recycled must be disposed in accordance with 40 CFR 257 and 258 and applicable state laws. In either case, the chemical constituents of the materials must be disclosed prior to disposal. If the composition of the material to be disposed is unknown, extensive laboratory analysis is necessary to determine all chemical constituents.
- 5. <u>Use as a Dust Suppressant</u>. No Coast Guard unit shall use used oil or any other hazardous waste as a dust suppressant.

### L. Asbestos.

1. <u>Disposal Requirements</u>. The disposal of asbestos-containing material (ACM) is not regulated under RCRA, but rather, under the Clean Air Act (CAA). As is frequently the case, individual states may list asbestos as a hazardous waste. Detailed regulatory

CH-3 7-24

- 7.L.1. (Cont'd) requirements for the disposal of asbestos are found under 40 CFR 61.150. Basic disposal guidelines are outlined below: (The following guidelines are provided to allow individuals to gain a quick and brief understanding of the basic requirements. 40 CFR 61.150 must be referenced to fully understand the applicable requirements)
  - a. Asbestos-containing waste material should be formed into nonfriable (friable is defined as readily crumbled; brittle) pellets or other shapes.
  - b. Demolition, renovation, and other actions resulting in the collection of asbestos must use methods which will prevent the discharge of visible emissions to the outside air such as wetting down or plastic cover.
  - c. Waste material containing friable asbestos should be treated with water to form a slurry and then be sealed in leak-tight containers while wet. The containers shall be labeled as follows:
    - "Contains Asbestos, Avoid Opening or Breaking Container. Breathing Asbestos is hazardous to your Health."
  - d. Asbestos material must be disposed in a landfill approved for asbestos material.
  - 2. Policy Guidance. Requirements applicable to Coast Guard personnel involved in the handling of asbestos containing material may be found in COMDTINST M6260.16, Asbestos Exposure Control Manual.

# M. Polychlorinated Biphenyls (PCB's).

- 1. The disposal of PCB's and equipment containing PCB's is regulated under the Toxic Substances Control Act (TSCA). Requirements are detailed under COMDTINST M16478.2, The Procurement, Handling, and Disposal of Polychlorinated Biphenyls.
- 2. Any piece of electrical equipment containing 50 ppm or greater of PCB's must be transported and disposed in accordance with 40 CFR 761 and COMDTINST M16478.2. Units considering transportation or disposal of PCBs shall request assistance from their servicing CEU. Under no circumstances shall a Coast Guard unit ship PCB's to another Coast Guard unit without coordinating, before the fact, with the receiving unit.

7-25

7.M.3. Requirements of the Resource Conservation Recovery Act (RCRA) do not normally apply to the management and disposal of PCB's. If the PCB's meet one of the other definitions as hazardous waste as a result of mixing with either a listed of characteristic waste, they are fully regulated by RCRA, are covered by the land ban, and must be specially handled. Note: some states do regulate PCB's as a hazardous waste and may therefore require management/disposal practices similar to those specified in this Manual. Contact your CEU environmental protection specialist (enclosure (1)) to ascertain state requirements.

### CHAPTER 8. STORAGE AND CONTAINER REQUIREMENTS

## A. Container Specifications.

1. Condition of Containers. If a container holding hazardous waste (HW) is damaged, defective or if it begins to leak, the owner or operator must transfer the hazardous waste into an approved container, or place the defective container into a metal or plastic removable head salvage drum which meets all the conditions specified in 49 CFR Part 173.3 (c).

# 2. Compatibility and Testing of Containers.

- a. Containers must be made of or lined with materials which will not react with, and are otherwise compatible with the hazardous wastes to be stored. Steel drums are generally sufficient for most known Coast Guard wastes, except liquid corrosives.
- Procurement of new drums is not required. Previously used drums may be reused for accumulation and shipment of HW by highway only (49 CFR 173.12(c)). These drums may not be offered for transportation less than 24 hours after finally closed for transportation (to check for leakage) and must be inspected for leakage immediately prior to being offered for transportation. It is not recommended that LOGs use reused containers. The new RCRA volatile organic compound (VOC) emissions rule requires that LQGs accumulate VOC hazardous waste in containers that meet the applicable DOT packaging specifications of 49 CFR 178, or in containers equipped with a cover and closure devices that form a continuous barrier over the container opening. measurements and monitoring activities are not required for units which store VOC hazardous waste in containers with a capacity of 119 gallons or less. SQGs are excluded from the new VOC regulations. Contact the environmental protection specialist at your servicing CEU or ISC for further guidance concerning VOC issues.
- c. Title 49 CFR, Part 178 prescribes the manufacturing and testing specifications for packaging and containers used for transportation of hazardous materials.

8-1 CH-3

- 8.A.3. Handling and Closure. A container holding hazardous waste must always be closed during storage except when necessary to add or remove waste. The bung should be wrench tight (Note that the difference between hand and wrench tight is often a matter of the personal opinion of the inspector). In addition, a container holding hazardous waste must not be opened, handled, or stored in a manner which may rupture the container or otherwise cause it to leak.
  - 4. <u>Labeling of containers</u>. Labeling requirements are specified in Section E of Chapter 5. Supplemental information (specific labeling requirements for common Coast Guard waste items) is also provided by waste type in Chapter 7.

### B. <u>Empty Containers</u>.

- 1. <u>Definition</u>. Empty containers or container liners are not regulated as hazardous waste if all wastes have been removed and no more than 2.5 centimeters (one inch) of residue remains. If the containers are compressed gas cylinders or aerosol cans the pressure within the empty containers must approach atmospheric. For acutely hazardous wastes listed in 40 CFR 261.33(e), the container or liner must be triple rinsed with a solvent capable of removing the waste. You should note that the definition of "empty" under RCRA is not necessarily the same as that for transportation under 49 CFR. Contact your servicing CEU for further advice.
- 2. Marking. All empty drums and containers shall be clearly marked with the word "EMPTY". All other markings shall be removed or painted over. This is important since emergency response teams commonly encounter empty drums with old markings. Response personnel are unaware that such a container is empty, thereby causing lengthy and avoidable delays. Furthermore, in an old landfill it may be impossible to determine which drums may have been empty versus those drums whose contents have leaked into the surrounding landfill.
- 3. Triple Rinsing. Empty containers of acutely hazardous waste shall be triple rinsed with a solvent capable of removing the residue. The quantity of solvent used for each of the three rinses must equal ten percent of the container capacity. If the rinsate can't be re-used it must be managed as a hazardous waste.

CH-3 8-2

- 8.C. Engineering Standards for Temporary Storage Areas.
  - 1. <u>Temporary Storage</u>. Temporary storage (Accumulation) areas must be designed as follows:
    - a. Locate on a well-drained site to prevent accumulation of precipitation and locate as far as practical from any floor drain, storm sewer or body of water. Minimize the possibility of any unplanned release of hazardous waste by providing spill pans, "poly spill containment pallets", "poly dual-drum storage containers" or an impermeable bermed storage pad designed to contain 110% of the volume of the largest container or 10% of the total volume of all containers whichever is greater.
    - b. Containers need to be elevated so as to avoid standing water and allow easy inspection. The use of shipping pallets, preferably plastic will generally prove a practical means of satisfying this requirement.
  - 2. Security. Security fencing or drum locks may be necessary in some circumstances where the responsible command seeks to protect against tampering or trespassers to the accumulation area. Note however that in situations where the accumulation area needs to be frequently opened for purposes of adding small amounts of waste to a drum, such controlled access may encourage indiscriminate dumping. This situation should not be a problem at units which handle small amounts through satellite drums (or 5 gallon cans) and the accumulation area is used solely for the storage of filled containers.
  - 3. Roofing. Enclosed or roof covered enclosures are not required, but may be desirable at those locations subject to extreme weather conditions.
  - D. <u>Inspections</u>. All units which generate greater than 100 kilograms of hazardous waste per month shall conduct weekly inspections of all areas where hazardous wastes are temporarily stored. CESQGs should check with their state regulatory agency to determine if any state inspection requirements are applicable. A written inspection log describing the condition of the stored materials and their containers will be maintained by the designated HW manager. Copies of the logs shall be kept for at least three years. A sample format for inspection logs is provided as Figure 8-2.

8-3 CH-3

FIGURE 8-2

# WEEKLY CONTAINER INSPECTION LOG SHEET

WELKLY C	WEEKLY UUNIAINER INSPECIIUN LUG SHEET		3 SHEET	STATUS LEGEND
LOCATION				Satisfactory
DATE	TIME		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Unsatisfactory
INSPECTOR'S NAME	SIGNATURE	ZE:	# 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Not Applicable
CHECKLIST ITEM	POSSIBLE PROBLEM	STATUS	OBSERVATIONS	DATE AND NATURE OF REMAIRS/REMEDIAL ACTION
Securityi	Fence unlocked/opened.	-		
Signs:	Hissing/Incorrect/Not/ Readable.			
Structural Equipment:	Foundation/Valls/Roof/ Containment Systen.			
Container Storage:	Aisle Space Drums without pallets Incompatible Starage			
Condition of Containers:	Upen to atnosphere Deteriorating/domaged Missing lid/bolt/ring Container bulged			
Conpatability of Container with Vaster	Inproper container/No liner.			
Packaging/Marking:	No Marking Improper Packaging			
Vaste Accumulation	Absence of recordkeeping Accumulation Date			

## CHAPTER 9. CONTINGENCY PLANS AND EMERGENCY PROCEDURES

#### A. General.

- Regulations. Regulations located at 40 CFR 265, 1. require that large quantity generators (1000kg/mo or more) maintain and operate their facilities in a manner that minimizes the potential for unplanned releases of hazardous waste. Requirements call for an emergency communication system, for fire and spill prevention/control equipment, and for arrangements with local police, fire and emergency response teams. Furthermore, it is required to formalize one's preparation through a written contingency plan designed to minimize hazards from fires, explosions, or any unplanned release of hazardous waste. Although separate management and contingency plans are allowed, we strongly recommend that there be one management plan for hazardous waste which is sufficient to meet both requirements.
- Plan Implementation. The provisions of the contingency plan must be carried out immediately whenever there is a fire, explosion, or release of hazardous waste or hazardous waste constituents that could threaten human health or the environment. A simplified summary of these requirements is contained in figures 9-1 and 9-2. Full details regarding these requirements is spelled out under 40 CFR 265, Subparts C & D. A sample preparedness and prevention plan is provided as Enclosure (9) and a detailed outline of contingency plan requirements is provided as Enclosure (10).
- Plan Format. A format for a unit contingency plan is 3. provided as Enclosure (11). Units which generate 1000 kg per month or more shall use the format presented under Enclosure (11), filling in the various blocks using guidance from this Chapter and Enclosure (10). Completion of the contingency plan combined with preparedness and prevention information outlined in Enclosure (9) will satisfy EPA and many State and local requirements. Although emergency/preparedness plans and contingency plans are described as separate requirements under Federal regulations, it is reasonable to combine the required information into a single document. An elaborate and lengthy plan is not A brief plan using the format outlined necessary. under Enclosure (11) will be sufficient for most Coast Guard units. The size and complexity of a unit will dictate what length and detail is appropriate for the plan.

9.A.4. Training. All units which handle hazardous waste shall train personnel and otherwise prepare for possible emergencies as appropriate to the scale and danger of hazardous waste handled or released. Most important here is the awareness of personnel regarding possible injury to skin, eyes, etc. if a given waste is improperly handled or released. Knowledge of the medical steps immediately recommended for such a possibility is also a basic training need. (NOTE: See Chapter 10 of this manual for a complete description of training requirements.

## B. Hazardous Waste Discharges (Spills) and Clean-Up.

- 1. Immediate Action. In the event of a discharge of hazardous waste the generator or transporter must take appropriate action to "protect human health and the environment". This may require diking the spill area, notifying local authorities, and, if necessary (a spill has exceeded the reportable quantity for example), notifying the National Response Center (800-424-8802). In general, common sense should dictate that serious spills will require some form of notification. WHEN IN DOUBT, REPORT THE SPILL.
- 2. Notification. Notification is generally required when:
  - a. A spill reaches a water body or water system,
  - b. Human safety might be endangered
  - c. When environmental contamination is possible
  - d. When the amount released exceeds the reportable quantity for that substance as established by EPA
- 3. <u>Small Spills</u>. Small spills may in fact be significant. For example, spilling only a small amount of solvent on a highly porous soil (without cleanup) may allow the solvent to leach down to a shallow aquifer, which then may contaminate an entire drinking water supply.
- 4. Reporting Requirements. Federal, state, and local reporting requirements are complex, confusing, and sometimes overlap or conflict. As a result it is prudent that when in doubt, report the spill. If a spill has gone down drains or into sewers call the sewer authority and/or wastewater treatment plant in addition to the NRC. Furthermore, if a spill has entered a reservoir or other drinking water supply, call the water authority.

#### CHAPTER 10. PERSONNEL TRAINING

#### A. Required Training.

- 1. Regulations. The EPA training regulations applicable to LQG facility personnel are found in 40 CFR 265.16, and the regulations for SQG personnel are found in 40 CFR 262.34 (d) (5) (iii). DOT training regulations 49 CFR 172.704 are applicable to personnel who certify hazardous waste manifests. OSHA training regulations 29 CFR 1910.120(p) (8) (iii) are applicable to LQG and SQG facility personnel who are required to respond to emergencies within hazardous waste related areas. CESQG's should check with their state regulatory agency to determine if any state training requirements are applicable.
- 2. Requirements. All personnel with the exception of CESOG personnel who manage hazardous wastes are required to receive mandatory training to perform the tasks assigned, including responding to emergencies such as spills, fires, or explosions. Resident, computer-based, and onthe-job (OJT) training can all be used as delivery methods depending on the availability of mandatory training funds. The training program must be directed by a person trained in hazardous waste management procedures. Unit hazardous waste coordinators shall provide training to other unit personnel who perform hazardous waste tasks at the unit that meets federal and state requirements. Every effort shall be made to appoint unit hazardous waste coordinators from the large pool of Coast Guard personnel who have already received task related training.
- B. Frequency of Training. Initial EPA training must be completed by LQG personnel within six months after assignment followed by annual refresher training. SQG personnel must be familiar with waste handling and emergency procedures relevant to their responsibilities. EPA regulations do not specify the frequency or scope of SQG training. Annual refresher training is not required for SQG personnel. Initial DOT training must be completed by personnel assigned to certify manifests within 90 days after assignment followed by triennial refresher training. One time OSHA emergency response training must be completed by LQG and SQG emergency coordinators before they are called upon in a real emergency.

10-1 CH-3

- 10.C. Recordkeeping. Initial and refresher training must be documented in a log or other suitable record which records the employee's name, job title and description, and the dates and subject of training. Training records must be maintained for all current personnel both military and civilian handling or managing hazardous waste. Training records on former employees or transferred personnel must be kept for at least three years from the date the person last worked at the facility. The training log shall be maintained by a supervisor responsible for the handling of hazardous materials/waste or the unit hazardous waste coordinator in the case of large units, and shall reflect annual training updates as well as initial training sessions. Copies of training records documenting completion of training shall be provided to all personnel departing the unit for their records.
  - D. <u>Purpose of the Training Program</u>. In addition to compliance with the regulatory requirements, the purpose of the training program is to teach facility personnel the following basic principles:
    - 1. The Coast Guard Approach to Sound Management of Hazardous Wastes.
    - 2. Performance of Required Tasks Safely Without Causing a Spill or Other HM/HW Incident.
    - 3. Respond Effectively to Emergencies.
    - 4. Avoid Unnecessary Testing, and Disposal Costs.
  - E. Contents of training program. Each training program should be tailored to the specific unit (or group of units). All training programs should include at least some discussion of each of the following topics:
    - 1. RCRA Introduction and Overview.
    - 2. Standards Applicable to Generators (LQG's, SQG's, and CESQG's).
    - 3. Identifying Hazardous Waste.
    - 4. DOT Classification of Hazardous Wastes.
    - 5. Hazardous Waste Manifest Preparation.

CH-3 10-2

#### CHAPTER 11. SHIPBOARD HAZARDOUS WASTE

#### A. General Information.

- Policy. The Federal Facility Compliance Act exempts public vessels from the storage, manifest, inspection and recordkeeping requirements of hazardous waste regulations. Therefore, for purposes of Federal and State RCRA requirements ships are not generators. Written Host/Tenant agreements establishing the responsibilities of the tenant vessel with regard to proper management and handling of hazardous wastes shall be mandatory and renewed annually. See Figure 2-2 for a sample Host/Tenant Agreement. The HOST is responsible for preparation of the Host/Tenant Agreement. Visiting vessels shall be provided with a copy of the local HW Management Instruction. Except in an emergency involving the safety of the ship or its crew, no hazardous wastes will be discharged while underway.
- 2. Waste Generated Aboard Ship. Hazardous wastes generated aboard ship shall be properly managed in accordance with the applicable sections of this Instruction. The wastes will then be turned over for disposal to a supporting shore facility which has an EPA generator identification number. The turn over will be accompanied by a completed DD-1348 and Hazardous Waste Profile Sheet. The vessel shall be responsible for insuring that the DD-1348 is completed, the waste is properly identified, packaged, and marked. All manifests and records will be prepared and maintained by the host shore facility.
- 3. Packaging and Marking. It is very important that all hazardous wastes be properly packaged and marked. Failure to mark drums and other containers will cause considerable confusion, expense, and possible danger to shore facility personnel. Unidentified waste must be tested before disposal and typically costs hundreds of dollars for even small quantities. Costs for testing are generally the responsibility of the generating unit. Contact your servicing CEU for technical advice on proper testing. The importance of proper marking and handling cannot be overemphasized. LIABILITY FOR IMPROPER MANAGEMENT OF HAZARDOUS WASTE RESTS WITH THE UNIT (VESSEL) COMMANDING OFFICER.
- 4. Typical Wastes Generated Aboard Ship. Typical hazardous wastes from vessels and their operations include ATON batteries, spent OBA canisters, paints, and solvents, bilge slops, and waste fuels and oil.

11-1 CH-3

- 11.A.5. Shipboard HW/HM Coordinator. Commanding officers and Officers in Charge of vessels shall appoint an individual responsible for the proper management and transfer of any hazardous wastes generated on board. This individual will (1) ensure the proper packaging, marking, and handling of any hazardous wastes, and (2) coordinate transfer of the waste to the appropriate shore command in a responsible manner. SPECIAL NOTE: If independently moored, the hazardous waste coordinator shall coordinate the disposal of wastes with the DRMO or waste disposal contractor. Information pertaining to hazardous waste contracts effective in your operating area may be obtained from the designated CEU or MLC hazardous waste contact listed under Encl. (1).
  - 6. Dichromate Rust Inhibitor. Should any vessel still use or retain old supplies of dichromate corrosion inhibitor, the corrosion inhibitor is to be disposed of as a hazardous waste. Use of corrosion inhibitors is addressed under the Naval Engineering Manual, COMDTINST M9000.6B. Disposal data is as follows:
    - o Proper Shipping Name: "Hazardous waste, liquid, n.o.s."
    - o Hazard Class: 9
    - o Identification Number: NA3082
    - o Label: Class 9
    - o Additional Information: (contains chromium)
    - o EPA Hazardous Waste Number: D007
  - 7. Spent OBA Canisters. Spent OBA canisters must be disposed of as a hazardous waste due to their ignitable characteristic and barium content. Spent canisters will be disposed of and manifested as directed under Section H of Chapter 7.
  - B. Special Circumstances (independently moored vessels):
    - 1. Definition. Independently Moored Vessel: For the purposes of this Instruction, an independently moored vessel is a vessel which has its own EPA identification number. There exist some cases where a CG facility serves as a homeport, and is a CESQG (generates no more than 100 kg of hazardous waste per month). In such cases, if the vessel causes the facility to generate over 100 kg per month it shall function as an independently moored vessel and the CESQG homeport shall function only as a transfer facility (40 CFR 263.12) unless a written host/tenant agreement states otherwise.

- 2. Management of Shipboard Generated Wastes.
  - a. Vessel Waste Exemption. Coast Guard shipboard generated waste is not subject to the RCRA storage, manifest, inspection, or recordkeeping requirements until the waste is removed from the vessel. Once shipboard generated waste is removed from a vessel and transferred ashore it is subject to the same requirements as any other waste, even if the waste should be subsequently picked up by another public vessel. If the waste is transferred to another public vessel without being placed ashore, it becomes subject to RCRA regulation 90 days from the date the transfer took place.
  - b. Host/Tenant Agreements. At Coast Guard or DOD supporting shore facilities, a host/tenant agreement shall be executed whereby the host facility agrees to be responsible for the management and disposal of waste unloaded from a tenant vessel. Such an agreement clarifies the hazardous waste management duties of the host facility and tenant vessel and also avoids the need for the vessel to obtain an EPA identification number. See Figure 2-2 for a sample host/tenant agreement.
  - EPA Generator ID Numbers. Any independently moored vessel c. generating more than 100 kg (220 lbs) of hazardous waste in a calendar month and which also brings its hazardous waste ashore at any location other than a Coast Guard or DOD supporting shore facility must obtain a temporary generator identification number from EPA or the appropriate state. Independently moored vessels which use mooring sheds for temporary hazardous waste storage shall obtain an EPA ID number for the mooring shed and ensure that all vessel generated hazardous waste is managed in accordance with the applicable federal and state regulations. Mooring sheds are discouraged but not prohibited. It is recommended that independently moored vessels off-load hazardous waste directly to a pier-side waste disposal contractor to avoid the possibility of having their mooring shed regulated as a hazardous waste storage facility.

11-3 CH-3

11.B.3. States Which Regulate Regardless of Quantity
Generated. An independently moored vessel which
produces hazardous waste in any quantity, and which is
homeported in the states of California, Louisiana,
Maine, Massachusetts (20kg), Minnesota, Ohio, or Rhode
Island must obtain a temporary EPA ID number. This is
necessary since the above states regulate all
hazardous waste regardless of quantity.

#### C. Used Oils.

- Federal Regulation. Used oil produced on vessels from 1. normal shipboard operations is not subject to the used oil management standards of 40 CFR 279 until it is transported ashore. Once shipboard generated used oil is removed from a vessel and transferred ashore it looses its exemption from regulation, even if the used oil should be subsequently picked up by another public vessel. The vessel and the shore facility which accepts the used oil from the vessel are co-generators of the used oil and are both responsible for managing the oil in compliance with 40 CFR 279 once the oil is transported ashore. The host/tenant agreement must address who will be responsible for storage and offsite shipment of the used oil. See Section K of Chapter 7 which addresses the management of used oils in greater detail.
- 2. <u>State Regulation</u>. Some states such as California, South Carolina, and New Jersey presently regulate all used oil as a hazardous waste. Your CEU hazardous waste contact and/or appropriate state office should be consulted for any unique requirements.

#### D. Shipyard Disposal.

- 1. Contract Provisions. When a vessel is undergoing repair at a commercial shippard, the repair contract shall specifically state that disposal of all hazardous wastes generated as a result of the contract will be performed by the contractor. Furthermore, the contractor shall meet all federal and state requirements including the possession of a state or EPA generator number.
- 2. Items Not Associated with Ship Repair. Bilge water, slop tanks, and other material which may be removed by contractor, but not associated with ship repair shall be tested to ascertain whether any of the materials qualify as a hazardous waste. Testing and disposal (if required) of this material should also be stipulated in the repair contract.

- 11.D.3. Generator Responsibility. For purposes of identifying generator responsibility at private shipyards, there are two general situations that may involve the generation of hazardous waste. The following provides quidance for each situation:
  - a. When hazardous waste is generated as a result of work performed by the contractor, the contractor bears sole legal responsibility for proper management of wastes generated in the course of the contractor's activities. Specifically, any "material" which becomes a waste during the course of contractor activity will then be considered contractor generated hazardous waste. The contractor must use his generator number and assume all associated responsibilities. Not all contractors understand this responsibility. Accordingly, any contract shall specify generator responsibility under RCRA.
  - In rare instances when hazardous waste is b. generated as a result of continuing operation of ship systems (operational HW), the contract shall stipulate that the contractor will perform generator responsibilities on behalf of the Coast Guard (the contract should also stipulate that copies of manifests for any wastes generated under this paragraph will be provided to the vessel for its records). Note however, that this contractual arrangement does not relieve the Coast Guard of any long term liability associated with generation of the waste. In addition, contractual responsibility for Coast Guard operational HW is only applicable to work performed in a private shipyard. Operational HW generated by vessels at the Coast Guard Yard or any Navy yard will be managed by the shore facility.

11-5 CH-3

. . 

## **ENVIRONMENTAL MANAGEMENT PROGRAM CONTACTS**

Environmental Management Division COMMANDANT (G-SEC-3) U.S. Coast Guard Headquarters 2100 Second Street S.W.

Washington, DC 20593

COMDT (G-SEC-3)		
Ed Wandelt, Chief	(202)	267-2369
COMDT (G-SEC-3A)		
Ken Orr	(202)	267-2345
Martin Nguyen	(202)	267-2342
COMDT (G-SEC-3B)		
David Reese	(202)	267-1942
Desiree DiMauro	(202)	267-6032
Ken Malmberg	(202)	267-6214
TJ Granito	(202)	267-1941
Kebby Hardy	(202)	267-6034
COMDT (G-SEC-3C)		
Chris Hart	(202)	267-1918

Commander, Facilities Design and
Construction Center - FD&CC (Atlantic)
5505 Robin Hood Road, Suite K
Norfolk, VA 23510

Wes Sykes,	Chief	(757) 858-6269	ext.	253
Jim Lewis		(757) 858-6269	ext.	255
Earl Ward		(757) 858-6269	ext.	252

Commander, Facilities Design and Construction Center - FD&CC (Pacific) Seattle, WA

Michael Bowlus	(206)	220-7370
John Vogel	(206)	220-7387

#### Enclosure (1) to COMDTINST M16478.1B

#### MLC-ATLANTIC

## Commander (MLCs) 300 East Main St. Suite 500 Norfolk, VA 23510-9101

Phil Phillips Chief, Environmental Section	(757)	628-4247
Sheri Imel	(757)	628-4248

# Civil Engineering Unit (CEU) Providence Landmark Center, Suite 200 300 Metro Center Blvd. Warwick, RI, NY 02886

Chief, Environmental	Section	(401)	736-1746
Luke Dlhopolsky George Bockstael			736-1743 732-2046

## Civil Engineering Unit (CEU) Cleveland 1240 East 9th Street Cleveland, OH 44199-2060

Frank Blaha Chief, Environmental Section	(216) 522-3934 ext.368
Jim Woodward	(216) 522-3934 ext. 866
Gary Nelson	(216) 522-3934 ext. 635
Denise Hancsak	(216) 522-3934 ext. 267

## Civil Engineering Unit (CEU) Miami 15609 S.W. 117 Avenue Miami, FL 33177

2

Zonia Reyes Chief, Environmental Section	(305)	278-6705
Jon Mann	(305)	278-6708

## Enclosure (1) to COMDTINST M16478.1B

#### MLC-PACIFIC

## Commander, (MLCs) Coast Guard Island Alameda, CA 94501-5100

Sue Boyle Chief, Environmental Section	(510)	437-3973
Carol Meyer Bill Nichols Yuan Le	(510)	437-3511 437-5906 437-5909

## Civil Engineering Unit (CEU) Oakland 2000 Embarcadero, Suite 200 Oakland CA 94606-5000

Dave Stalters Chief, Environmental Section	(510) 535-7237
Joe Sable	(510) 535-7239
Louis Rivero	(510) 535-7275
Rob Rothway	(510) 535-7222

## Civil Engineering Unit (CEU) Honolulu Prince Kalanianole Federal Building 300 Ala Moana Blvd. 9th Floor Honolulu, HI 96850-4982

Jay Silberman (808) 541-2077

## Civil Engineering Unit (CEU) Juneau P.O. Box 21747 Juneau, AK 99802-1747

Robert Deering Chief, Environmental Section	(907) 463-2440
Larry King	(907) 463-2405
Mike Dombkowski	(907) 463-2421

## U.S. EPA REGIONAL OFFICES

EPA REGION I Waste Mgmt. Division JFK Federal Building Boston, MA 02203 (617) 565-3400

EPA REGION II
Waste Mgmt. Division
290 Broadway, 28th floor
New York, N.Y. 10007
(212) 637-3000

EPA REGION III Waste Mgmt. Division 841 Chestnut St. Philadelphia, PA 19107 (215) 597-8131

EPA REGION IV
Waste Mgmt. Division
100 Alabama St., S.W.
Atlanta, GA 30303
(404) 562-9590

EPA REGION V
Waste Mgmt. Division
77 West Jackson Blvd.
Chicago, IL 60604
(312) 886-7579

EPA REGION VI Waste Mgmt. Division 1445 Ross Ave. Dallas, TX 75202 (214) 655-6700

EPA REGION VII Waste Mgmt. Division 726 Minnesota Ave. Kansas City, KS 66101 (913) 551-7051

EPA REGION VIII
Waste Mgmt. Division
999 18th St.
Denver, CO 80202
(303) 293-7450

EPA REGION IX
Waste Mgmt. Division
75 Hawthorne St.
San Francisco, CA
(415) 744-1305

EPA REGION X
Waste Mgmt. Division
1200 Sixth Ave.
Seattle, WA 98101
(206) 553-1200

• . 

## WHERE TO GET MORE HELP

For further assistance in understanding the hazardous waste regulations applicable to you, contact your state hazardous waste agency. Other assistance resources include the EPA Resource Centers (including the RCRA Hotline) or your EPA Regional office.

## STATE HAZARDOUS WASTE MANAGEMENT AGENCIES

ne of the best ways to ensure compliance with hazardous waste regulations is to set up a visit by an inspector from your state or local hazardous waste agency. These visits can help you identify and correct problems. During the visit, you can ask the inspectors questions and receive advice on effective ways to manage your hazardous waste. The best way to prepare for a visit from an inspector is to conduct your own self inspection.

#### Alabama

Land Division
Alabama Department of
Environmental Management
1751 Cong. William L. Dickinson
Drive
Montgomery, AL 36130
334 271-7730

#### Alaska

Division of Air and Water
Hazardous Waste Section
Alaska Department of Environmental
Conservation
410 Willoughby Avenue, Suite 105
Juneau, AK 99801
907 465-5158

#### American Samoa

American Samoa Environmental Protection Agency Government of American Samoa Pago Pago, American Samoa 96799 Overseas Operator: 684 663-2304

#### Arizona

Hazardous Waste Compliance Unit Arizona Department of Environmental Quality 3033 N. Central Avenue Phoenix, AZ 85012 602 207-4108

#### Arkansas

Hazardous Waste Division Arkansas Department of Pollution Control and Ecology 8001 National Drive Little Rock, AR 72219 501 562-6533

#### California

Hazardous Waste Management Program Department of Toxic Substances Control P.O. Box 806 Sacramento, CA 95812 916 324-1781 800 61-TOXIC (CA only)

#### Colorado

Hazardous Materials and Waste Management Division Colorado Department of Health 4300 Cherry Creek Drive South Denver, CO 80222 303 692-3320

#### Connecticut

Bureau of Waste Management Department of Environmental Protection 79 Elm Street Hartford, CT 06106 203 424-3023

#### Delaware

Hazardous Waste Management
Branch
Department of Natural Resources and
Environmental Control
P.O. Box.1401
89 Kings Highway
Dover, DE 19903
302 739-3689

#### District of Columbia

Hazardous Waste Management
Branch
Pesticides and Hazardous Materials
Division
Environmental Regulatory
Administration
2100 Martin Luther King Avenue,
S.E.
Suite #203
Washington, DC 20020
202 645-6080

#### Florida

Bureau of Solid and Hazardous Waste MS4560 Division of Waste Management Department of Environmental Protection 2600 Blair Stone Road Tallahassee, FL 32399-2400 904 488-0300

#### Georgia

Hazardous Waste Management
Branch
Environmental Protection Division
Department of Natural Resources
Floyd Towers East/Room 1154
205 Butler Street, S.E.
Atlanta, GA 30334
404 656-7802

#### Guarin

Solid and Hazardous Waste Management Program Guam Environmental Protection Agency 130 Rajas Street, D107 Harmon Plaza Harmon, Guam 96911 Overseas Operator: 671 646-8863

#### Hawaii

Solid and Hazardous Waste Branch Office of Solid Waste Management Department of Health 919 Ala Moana, 2nd Floor Honolulu, HI 96814 808 586-4226

#### ldaho

Hazardous Materials Bureau
Division of Environmental Quality
Department of Health and Welfare
1410 North Hilton Street
Boise, ID 83706
208 334-5898

### Illinois

Division of Land Pollution Control Illinois Environmental Protection Agency 2200 Churchill Road Springfield, IL 62794-9276 217 785-8604

#### Indiana

Hazardous Waste Management
Branch
Office of Solid and Hazardous Waste
Indiana Department of
Environmental Management
105 N. Senate Avenue
P.O. Box 6015
Indianapolis, IN 46206-6015
317 232-4417

#### Iowa

Environmental Protection Division Department of Natural Resources 900 East Grand Avenue Des Moines, IA 50319-0034 515 281-4968

#### Kansas

Bureau of Waste Management Department of Health and Environment Forbes Field, Building 740 Topeka, KS 66620-0001 913 296-1608

#### Kentucky

Hazardous Waste Branch
Division of Waste Management
Department of Environmental
Protection
18 Reilly Road, Frankfort Office Park
Frankfort, KY 40601
502 564-6716

#### Louisiana

Office of Solid and Hazardous Waste Hazardous Waste Division
Louisiana Department of
Environmental Quality
P.O. Box 82178
7290 Bluebonnet Drive
Baton Rouge, LA 70884-2178
504 765-0249

#### Maine

Division of Oil and Hazardous Materials Facilities Bureau of Hazardous Materials Control and Solid Waste Control Department of Environmental Protection State House, Station #17 Augusta, ME 04333 207 287-2651

#### Maryland

Hazardous Waste Program
Hazardous and Solid Waste
Management Administration
Maryland Department of the
Environment
2500 Broening Highway
Baltimore, MD 21224
301 631-3345

#### Massachusetts

Division of Hazardous Waste Massachusetts Department of Environmental Protection One Winter Street, 7th Floor Boston, MA 02108 617 292-5574

#### Michigan

Hazardous Waste Permit Section Waste Management Division Department of Natural Resources 608 West Allegan, 1st Floor Lansing, MI 48933 517 373-0530

#### Minnesota

Hazardous Waste Division Minnesota Pollution Control Agency 520 North Lafayette Road St. Paul, MN 55155 612 297-8512

#### Mississippi

Division of Hazardous Waste Management Office of Pollution Control Department of Environmental Quality 2380 Highway 80 West P.O. Box 10385 Jackson: MS 39204 601 961-5052

#### Missouri

Hazardous Waste Management
Program
Division of Environmental Quality
Department of Natural Resources
Jefferson Building
205 Jefferson Street
P.O. Box 176
Jefferson City, MO 65102
314 751-3176

#### Montana

Solid and Hazardous Waste Bureau Department of Health and Environmental Sciences
Cogswell Building
P.O. Box 200901
Helena, MT 59620-0901
406 444-1430

#### Nebraska

Air and Waste Management Division
Department of Environmental
Quality
1200 N Street, The Atrium
Suite 400
P.O. Box 98922
Lincoln, NE 68509-8922
402 471-4217

#### Nevada

Waste Management Bureau
Division of Environmental Protection
Department of Conservation and
Natural Resources
333 West Nye Lane
Carson City, NV 89710
702 784-1717
800 882-3233 (NV only)

#### New Hampshire

Waste Management Compliance Bureau Waste Management Division Department of Environmental Services 6 Hazen Drive Concord, NH 03301-6509 603 271-2942

#### New Jersey

Bureau of Advisement and Manifest Department of Environmental Protection 401 East State St./CN-421 Trenton, NJ 08625 609 292-8341

#### New Mexico

Hazardous and Radioactive Waste Bureau Environmental Department P.O. Box 26110 Santa Fe; NM 87502 505 827-4308

#### New York

Division of Hazardous Substances Regulation Department of Environmental Conservation 50 Wolfe Road Albany, NY 12233 518 485-8988

#### North Carolina

Hazardous Waste Section
Division of Solid Waste Management
Department of Environment, Health,
and Natural Resources
P.O. Box 27687
Raleigh, NC 27611-7687
919 733-2178

#### North Dakota

Division of Hazardous Waste Management Department of Health Management and Special Studies P.O. Box 5620 Bismarck, ND 58502-5520 701 328-5166

#### Ohio

Division of Hazardous Waste Management Ohio Environmental Protection Agency 1800 Watermark Drive Columbus, OH 43215 614 644-2944

#### Oklahoma

Division of Hazardous Waste Management Department of Environmental Quality 1000 Northeast 10th Street Oklahoma City, OK 73117-1212 405 271-5338

#### Oregon

Hazardous Waste Program
Waste Management and Cleanup
Division
Department of Environmental
Quality
811 Southwest 6th Avenue
Salem, OR 97204
503 229-5913

### Pennsylvania

Bureau of Waste Management Pennsylvania Department of Environmental Resources 400 Market Street P.O. Box 8472 Harrisburg, PA 17105-8472 717 787-6239

#### Puerto Rico

Environmental Quality Board Office of the Governor Banco Nationale Plaza Building Suite 431 Hatorey, PR 00910 809 767-8056

#### Rhode Island

Division of Waste Management Department of Environmental Management 291 Promenade Street Providence, RI 02908 401 277-2797

#### South Carolina

Division of Hazardous and Infectious Waste Management
Department of Health and
Environmental Control
2600 Bull Street
Columbia, SC 29201
803 896-4000

#### South Dakota

Division of Environmental
Regulation
Department of Environment and
Natural Resources
523 E. Capitol Avenue, Foss Building
Pierre, SD 57501-3181
605-733-3153

#### Tennessee

Division of Solid Waste Management Tennessee Department of Environmental Conservation 401 Church Street L&C Tower, 5th Floor Nashville, TN 37243 615 532-0780

#### Texas

Industrial and Hazardous Waste Division Texas Natural Resources Conservation Commission P.O. Box 13087 Austin, TX 78711-3087 512 239-6592

#### Utah

Hazardous Waste Compliance Section
Division of Solid and Hazardous
Waste Management
Department of Environmental
Quality
P.O. Box 144880
Salt Lake City, UT 84114-4880
801 538-6170

#### Vermont

Hazardous Waste Management
Division
Department of Environmental
Conservation
Agency of Natural Resources
103 South Main Street, West Building
Waterbury, VT 05671
802 241-3888

#### Virgin Islands

Division of Environmental Protection Department of Planning and Natural Resources Government of the Virgin Islands 1118 Watergut Homes, Christiansted Project St. Croix, VI 00820 809 773-0565

#### Virginia

Office of Waste Resource
Management
Waste Division
Department of Environmental
Quality
P.O. Box 10009
Richmond, VA 23240-0009
804 527-5145

## Washington

Division of Hazardous Waste and Toxics Program Department of Ecology P.O. Box 47600 Olympia, WA 98504-7600 206 407-6758

#### West Virginia

Hazardous Waste Management
Section
Division of Environmental Protection
Bureau of Environment
State Complex Building 3, Room 732
1356 Hansford Street
Charleston, WV 25301
304 558-5929

#### Wisconsin

Hazardous Waste Management
Section
Division of Environmental Quality
Department of Natural Resources
101 S. Webster Street
Madison, WI 53702
608 266-2111

#### Wyoming

Solid and Hazardous Waste Division State of Wyoming Department of Environmental Regulation 122 West 25th Street Herschler Building Cheyenne, WY 82002 307 777-7752 

•			 •		-
	•				
				·	
	÷				

## U.S. Department of Transportation

#### United States Coast Guard

2100 Second St., S.W. Washington, D.C. 20593

Official Business Penalty for Private Use \$300